

ABSTRACT

Spray nozzle for overheated liquid

The invention relates to a device allowing an overheated liquid to be sprayed in very fine droplets at a very high speed, comprised of a nozzle body (1) followed by a mixer head and several injectors (16) opening onto a divergent and speed attainment nozzle (5). The invention also relates to fittings designed to adjust the exit section of the nozzle by adding a profiled core (11) that may slide on the axis of the divergent nozzle (5) and allowing, depending on its position, the exit section of the nozzle to be adjusted to maintain a maximum ejection speed of sprayed droplets. The device is essentially designed for chemical and energy industries.

Figure for the abstract: Figure 5